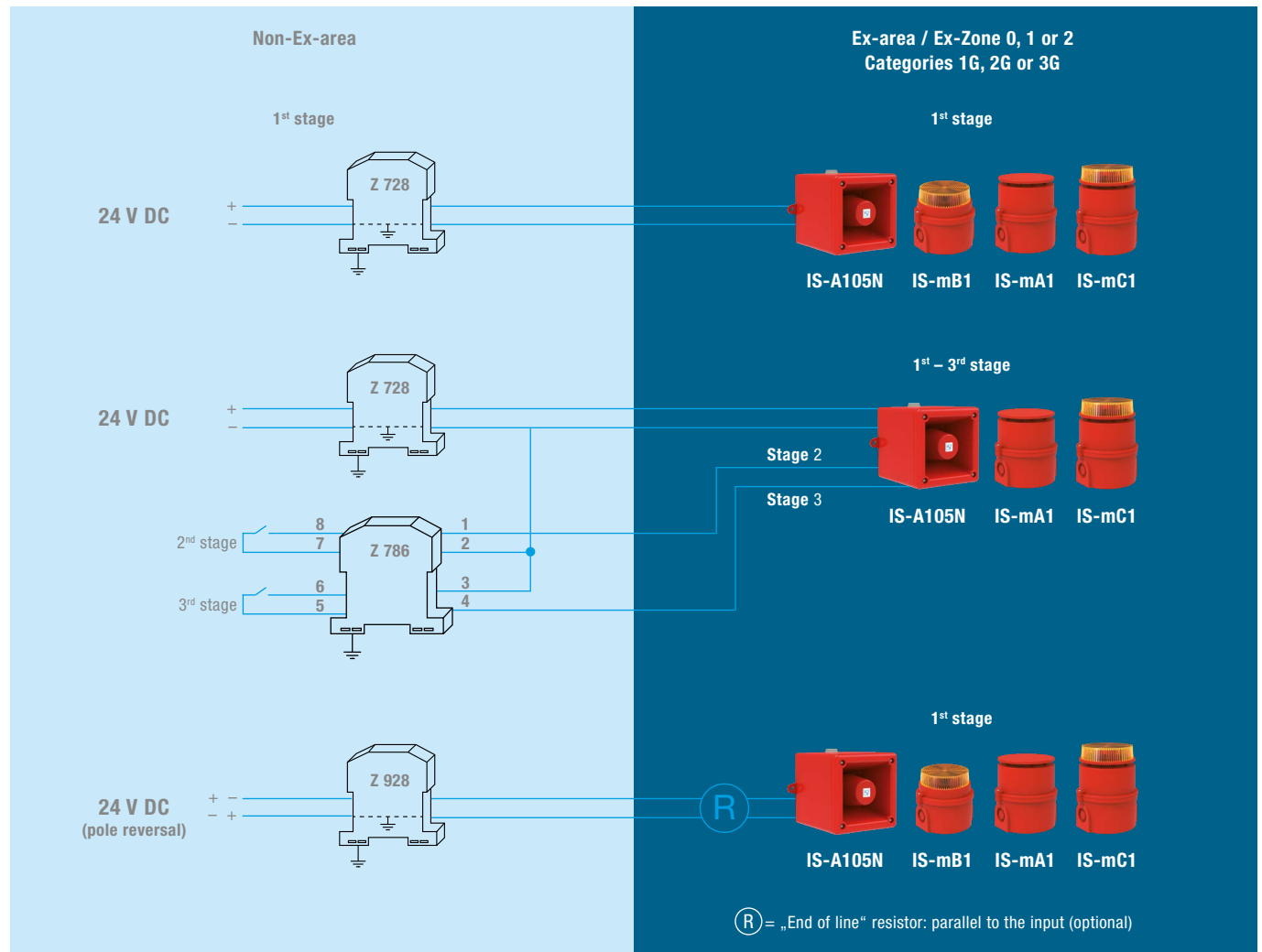


## ZENER BARRIERS

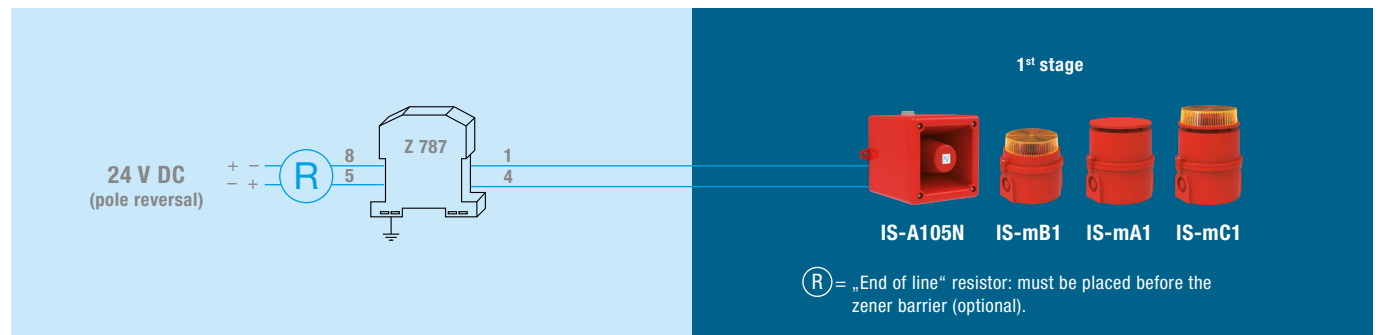
For intrinsically safe signalling devices in Ex applications.

Possible combinations: Zener barrier, IS-A105N sounder and signaling devices IS-Mini series.

Barriers to ground-based operations.



Barrier for earth-free operation (e.g. for systems with ground fault test)



| PRODUCT                |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| Design                 | terminal housing made of makrolon, flammability class UL 94 V-0                  |
| Height x Width x Depth | 110 x 12.5 x 115 mm                                                              |
| Mounting               | snap fitting to 35 mm DIN rail conforming to DIN EN 50022                        |
| Connection             | self-opening apparatus terminals; max. wire cross-section 2x 2.5 mm <sup>2</sup> |
| Ambient temperature    | -20 °C ... +60 °C                                                                |

| TYP   | VERSION                 |           | RATED DATA |                     | EX CHARACTERISTIC VALUES FOR (EEX IA) IIC |                         |                                          |                         |                          |                          | TECHNICAL DATA |                                           |                         |                     |                               |
|-------|-------------------------|-----------|------------|---------------------|-------------------------------------------|-------------------------|------------------------------------------|-------------------------|--------------------------|--------------------------|----------------|-------------------------------------------|-------------------------|---------------------|-------------------------------|
|       |                         |           | V          | Ω                   | U <sub>Z</sub><br>(V)                     | R <sub>min</sub><br>(Ω) | I <sub>k</sub> (I <sub>0</sub> )<br>(mA) | P <sub>max</sub><br>(W) | C <sub>max</sub><br>(μF) | L <sub>max</sub><br>(mH) | L/R<br>ratio   | max.<br>Longitudinal<br>resistance<br>(Ω) | U in at<br>10 μA<br>(V) | U in<br>max.<br>(V) | rated fuse<br>current<br>(mA) |
| Z 728 | Zener barrier DC +Ve    |           | 28         | 300                 | 28                                        | 301                     | 93                                       | 0.65                    | 0.083                    | 3.05                     | 56             | 327                                       | 26.5                    | 28                  | 50                            |
| Z 928 | Zener barrier AC        |           | 28         | 300                 | 28                                        | 301                     | 93                                       | 0.65                    | 0.083                    | 3.05                     | 56             | 327                                       | 26.5                    | 27.6                | 50                            |
| Z 786 | Diode barrier           |           | 28         | Diode A1<br>A2<br>B | 28                                        | —                       | —                                        | —                       | 0.083                    | —                        | —              | 36 + 0.9 V                                | 26.5                    | 28                  | 50                            |
|       |                         |           |            |                     | 28                                        | —                       | —                                        | —                       | 0.083                    | —                        | —              | 36 + 0.9 V                                | 26.5                    | 28                  | 50                            |
|       |                         |           |            |                     | 28                                        | —                       | —                                        | —                       | 0.083                    | —                        | —              | —                                         | —                       | —                   | —                             |
| Z 787 | Zener barrier<br>DC +Ve | Channel 1 | 28         | 300                 | 28                                        | 301                     | 93                                       | 965                     | 0.083                    | 3.05                     | 56             | 327                                       | 26.5                    | 28                  | 50                            |
|       |                         | Channel 2 | 28         | Diode               | 28                                        | Diode                   | 0                                        | 0                       | 0.083                    | —                        | —              | 36 + 0.9 V                                | 26.5                    | 28                  | 50                            |

Note: A1 and A2 – separate channels, B – two channels connected in parallel with ground connection.

| TYPE        | Z 728       | Z 928       | Z 786       | Z 787       |
|-------------|-------------|-------------|-------------|-------------|
| Article No. | 38109800000 | 38109300000 | 38109800001 | 38109800002 |

## BLOCK CIRCUIT DIAGRAMS

